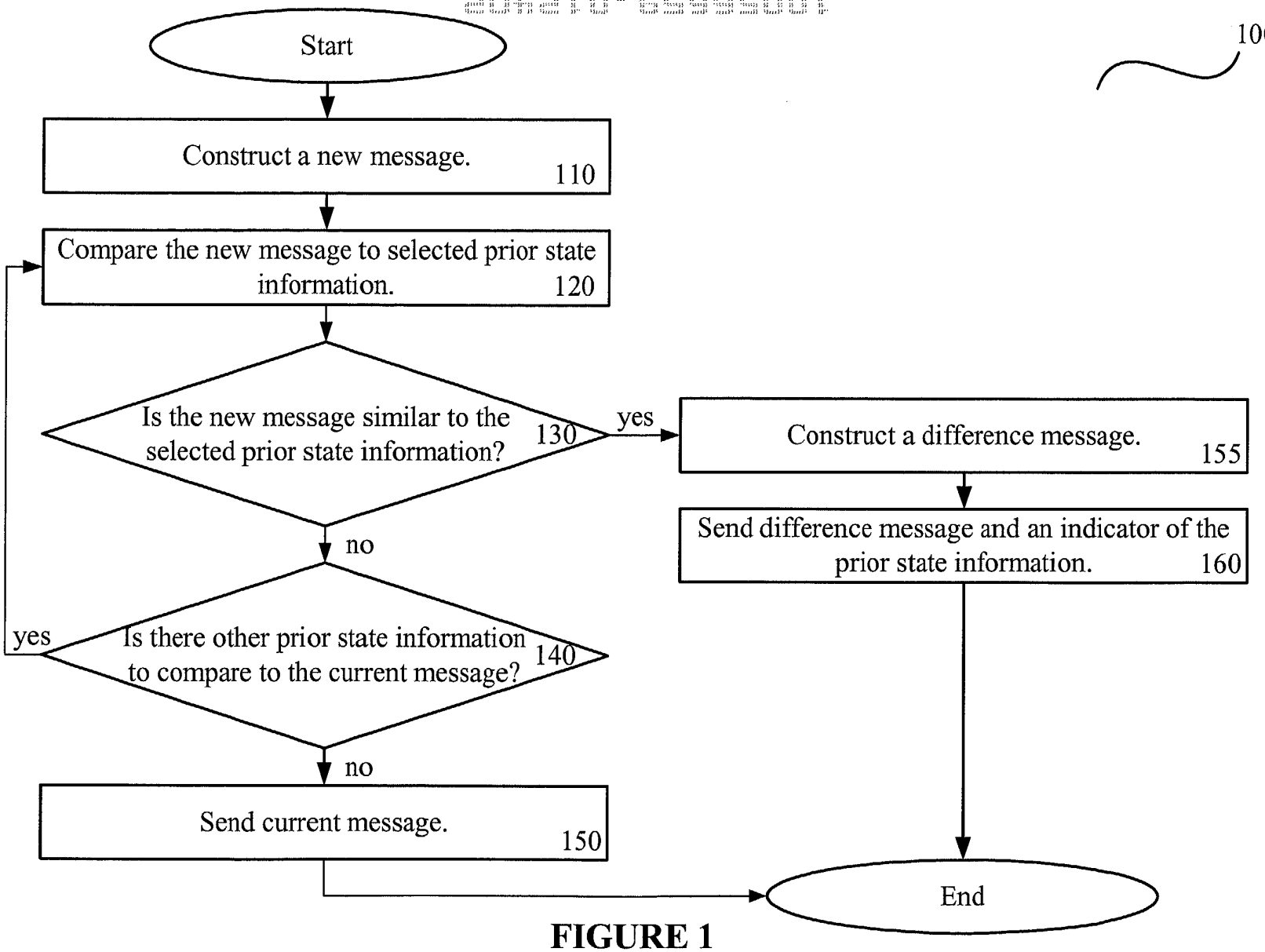
Start
100
Construct a new message.
110
Compare the new message to selected prior state information.
120
Is the new message similar to the selected prior state information?
130
yes
Construct a difference message.
155
Send difference message and an indicator of the prior state information.
160
no
Is there other prior state information to compare to the current message?
140
yes
no
Send current message.
150
End

FIGURE 1

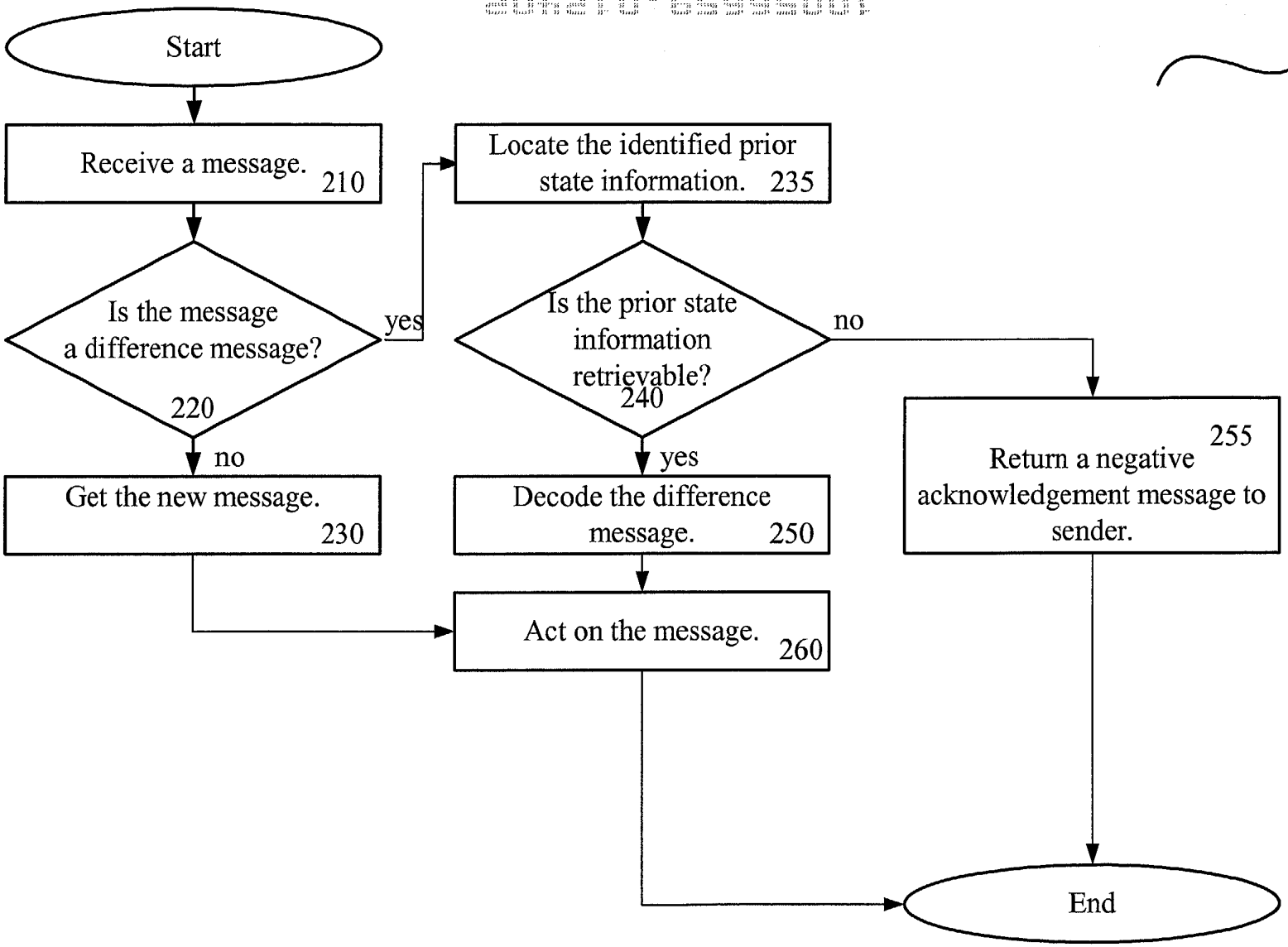
200
Start
Receive a message. 210
Is the message a difference message? 220
yes
no
Get the new message. 230
Locate the identified prior state information. 235
Is the prior state information retrievable? 240
yes
no
Decode the difference message. 250
Return a negative acknowledgement message to sender. 255
Act on the message. 260
End

FIGURE 2

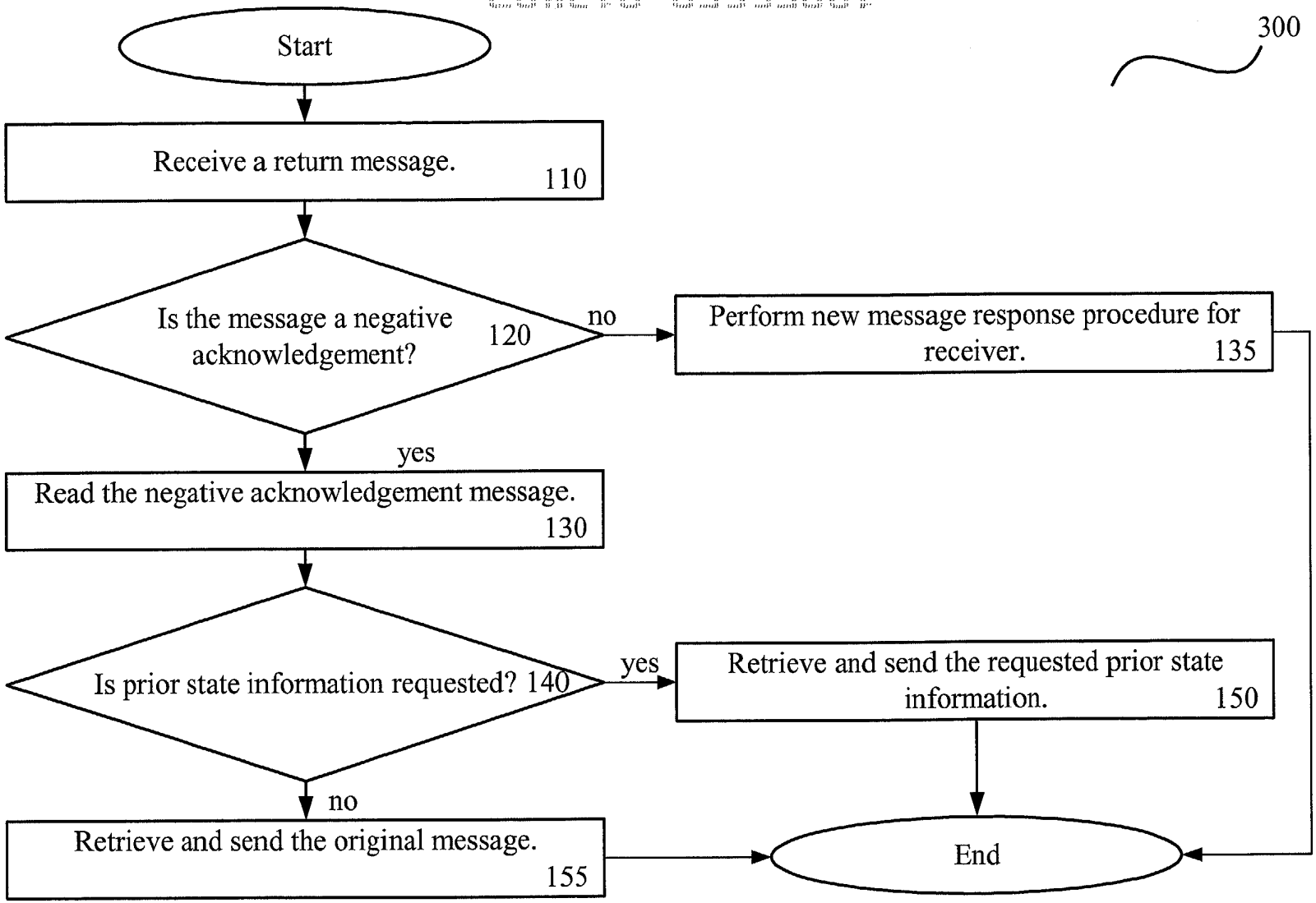
300
Start
Receive a return message.
110
Is the message a negative acknowledgement?
120
no
Perform new message response procedure for receiver.
135
yes
Read the negative acknowledgement message.
130
Is prior state information requested? 140
yes
Retrieve and send the requested prior state information.
150
no
Retrieve and send the original message.
155
End

FIGURE 3

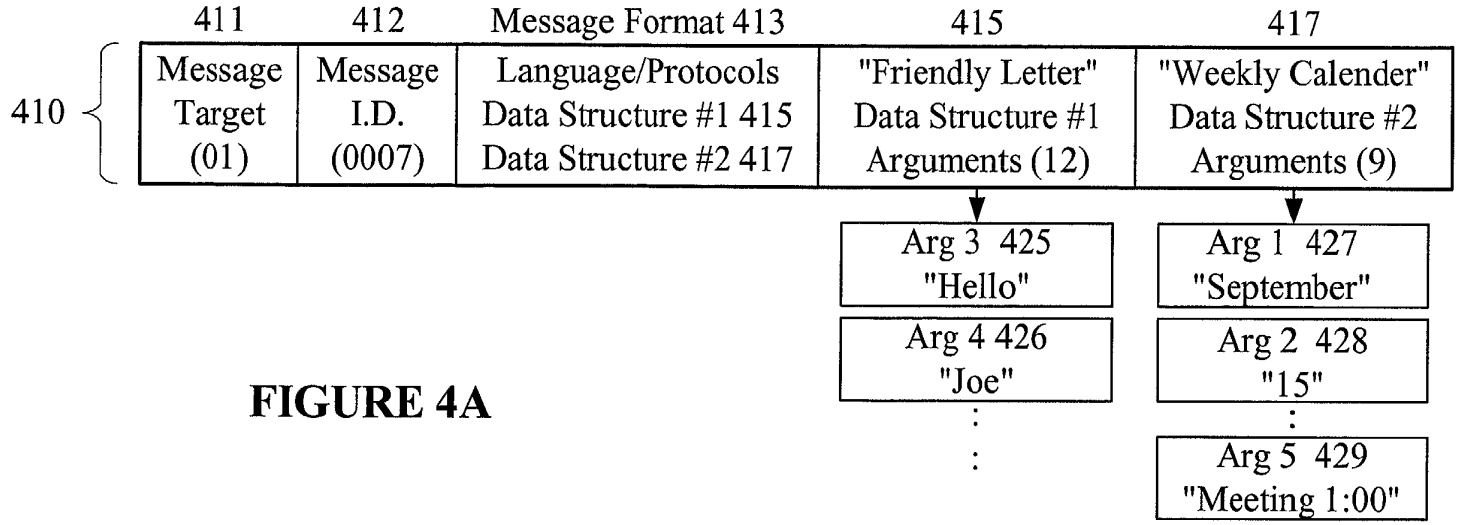

FIGURE 4A

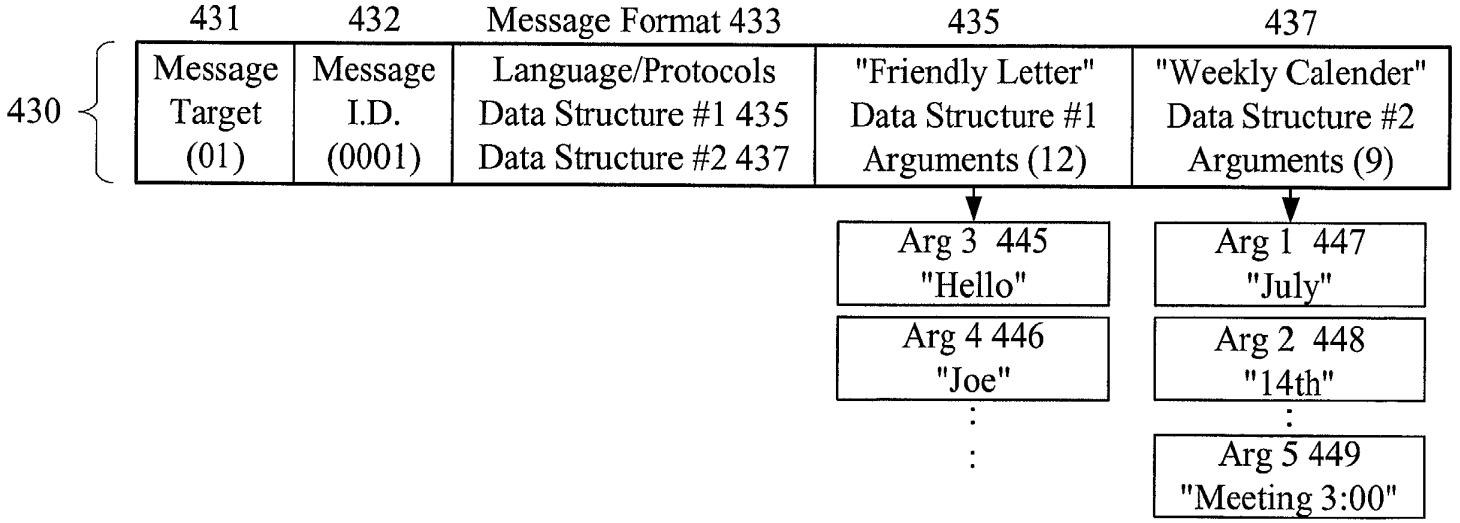

FIGURE 4B

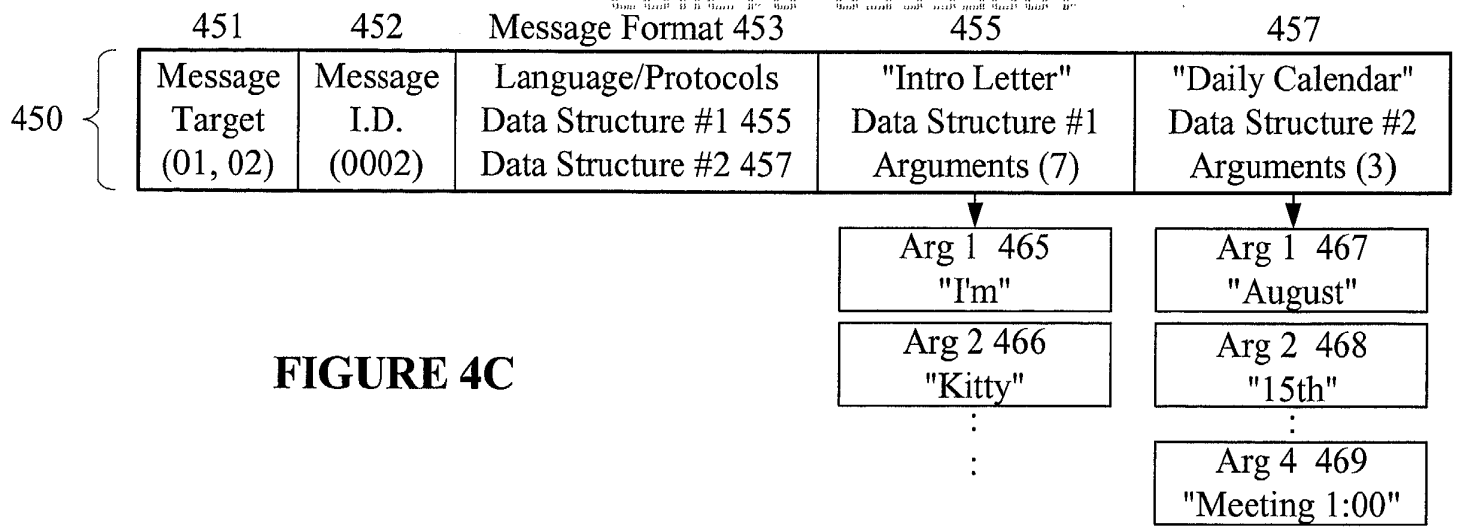

FIGURE 4C

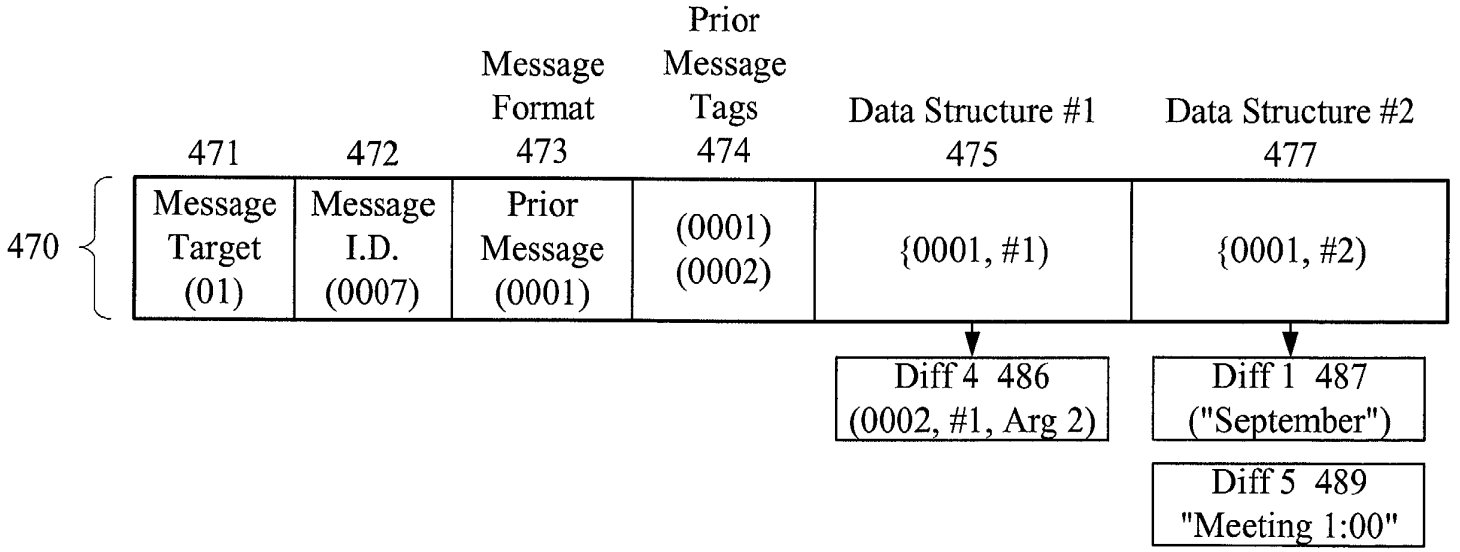

FIGURE 4D

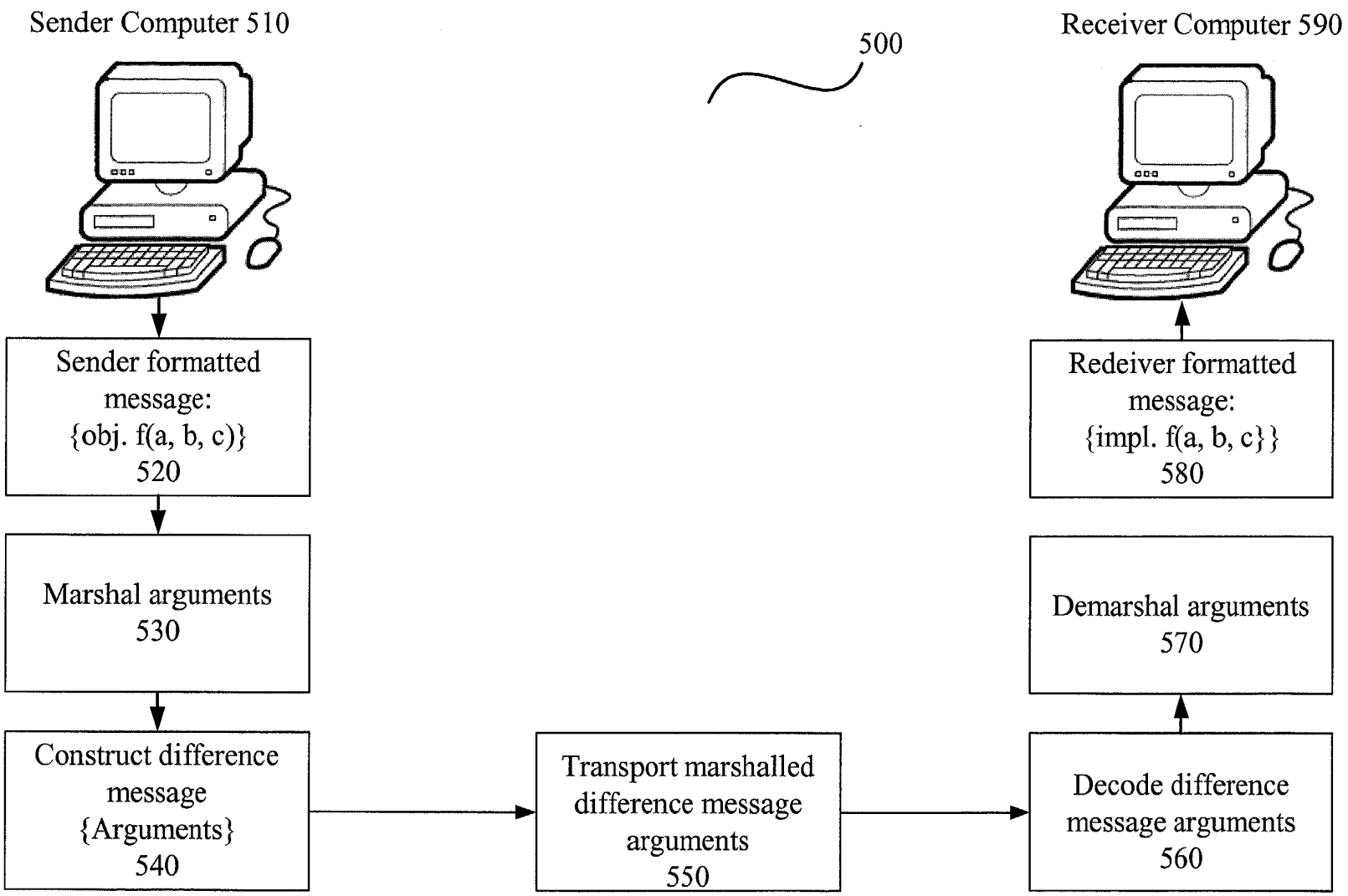
Sender Computer 510
500
Receiver Computer 590
Sender formatted message: {obj. f(a, b, c)} 520
Marshal arguments 530
Construct difference message {Arguments} 540
Transport marshalled difference message arguments 550
Decode difference message arguments 560
Demarshal arguments 570
Redeiver formatted message: {impl. f(a, b, c)} 580

FIGURE 5